

One-stop Palletizing Solution

The Dobot palletizing solution consists of a robot station and the palletizing process package with all modules already connected. Users can effortlessly define pallet patterns. This plug-and-play system can be deployed in 30 mins.



5 Core Technologies

SafeSkin



Safe Interaction

Dobot's exclusive pre-collision sensing technology for safer operation with a 15cm sensing range, completely preventing collision occurrence.

Operation Terminal



Easy to Deploy

The industry's first to achieve BLOCKLY programming, allowing multi-terminal operation for PC, tablet, and teach pendant. The teach pendant comes with a built-in smart interactive panel for more convenient operation.

All-in-One Robot Joint



Efficient Operating

Self-developed all-in-one joints, high-response electromagnetic brake technology, with joint speeds reaching industry-leading levels.

High-Performance Motion Control



Precision

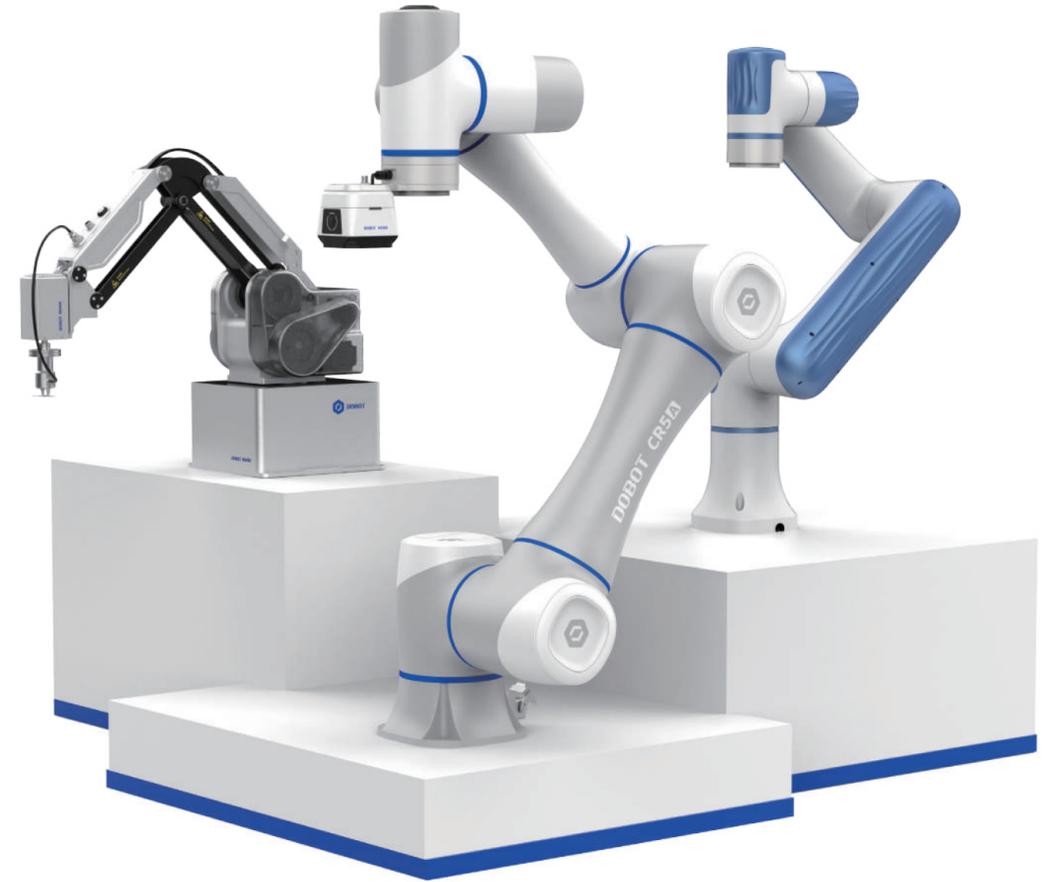
Micron-level vibration suppression algorithms and active compliant control technology, with an absolute positioning accuracy of less than ± 0.5 mm.

Process Package



Quick Application

Simple setup for palletizing, welding, and CNC process package, with one-click program generation for rapid implementation of customized applications.



Quick Palletizing & Depalletizing

Not only palletizing function, but also available to configure the depalletizing function, making it flexibly switch palletizing and depalletizing.

One Workstation, Multiple Product Line

Achieve the effect of alternately stacking pallets on two conveyor belts (production lines) corresponding to a single pallet stacking workstation. The two conveyor belts also support the configuration of different size containers.

Supports: 1 Conveyor 1 Pallet (Left Pallet), 1 Conveyor 1 Pallet (Right Pallet), 1 Conveyor 2 Pallets, 2 Conveyors 2 Pallets.

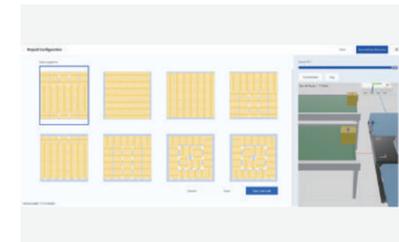
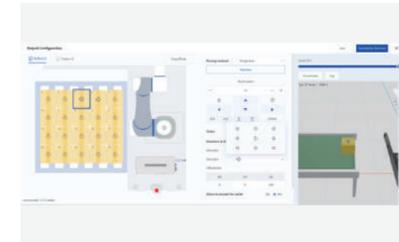
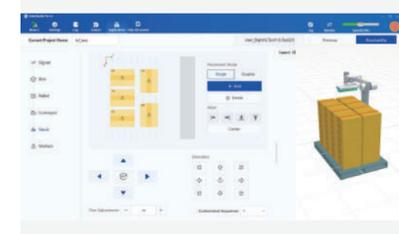
No Programming & Professionals Required

Deployment and adjustment through parameterization. The drag-and-drop point teaching allows the robot to automatically plan the most efficient action trajectory.

Advanced Automated Palletizing Functions

Allows these functions for enhanced flexibility and efficiency:

- 1) auto-generation for palletizing patterns;
- 2) Easy plug-in of interlayer;
- 3) label function: allows users to control the label direction of products;
- 4) Can be copied, mirrored, and rotated 180°.



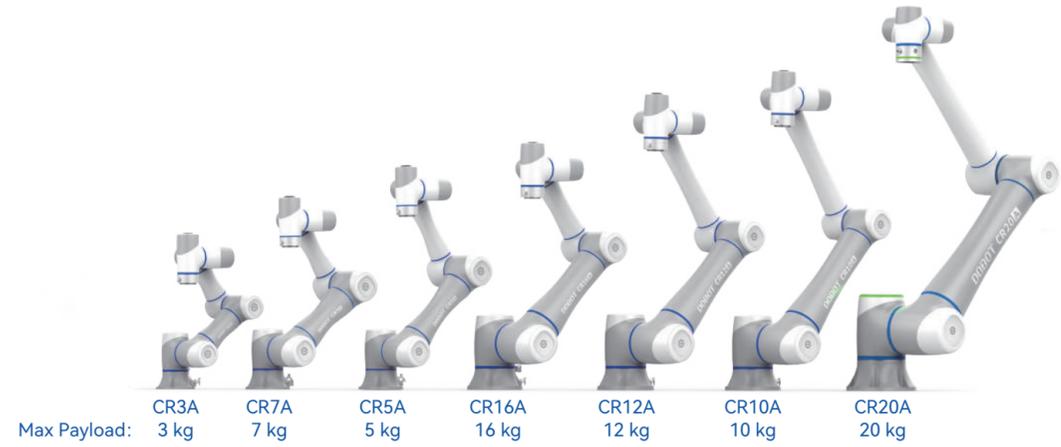
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Dobot's Product Line-up

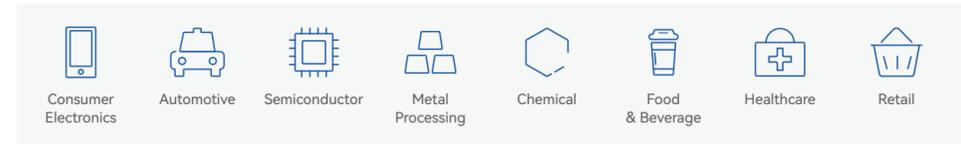
Make Automation Accessible



CRA Series

A new benchmark for collaborative robot

The CRA series, the new generation of collaborative robots, incorporates high-performance integrated joints, leading to a 25% increase in the cycle time and unprecedented efficiency. The new control cabinet and DobotStudio Pro system software ensures a comprehensive enhancement in safety, stability, and scalability, and improve human-machine collaboration to a whole new level.



VX500 Smart Camera

Enhanced precision, high efficiency, plug & play

5-megapixel camera and LED light source with Dobot self-developed 2.5D spatial compensation technology can achieve ± 0.26 mm positioning accuracy for a variety of applications. This includes grabbing slanted surfaces on objects, assembly for fixed positions and AMMR robot transportation, loading and unloading scenarios and more.



MG400 Collaborative Robot

Ultra-compact desktop-grade collaborative robots

Designed to be flexible to deploy, easy to use, and safe to collaborate, the MG400 makes automation affordable and accessible for diversified and small-batch production scenarios. Featuring a 750g payload, 440mm maximum reach, drag-to-teach, and collision detection, the MG400 is perfect for lightweight desktop applications and fast deployment into production lines.

Payload: Max. 750 g Reach: Max. 440 mm



Nova Series

Ultra-lightweight yet portable cobot for commercial use

The Nova Series comes with 2kg and 5kg maximum payload options. Nova cobots are ultra-lightweight and easy to use. Multiple built-in safety features ensure versatility across various commercial applications, including beverage, restaurants, physiotherapy and more. Customizable outer shell colors allow for coherent styling in stores.

Payload: Max. 2- 5 kg Reach: Max. 625 - 850 mm



M1 Pro SCARA

Ultra-lightweight yet portable cobot for commercial use

The M1 Pro is a collaborative SCARA robot for the light industry, leveraging M1's advantages with Dobot's smart technology. It features sensor-free collision detection, drag-to-teach programming, and high-precision encoders for accurate control. Secondary development is supported for expanded applications.

Payload: Max. 1.5 kg Reach: Max. 400 mm



All-in-One Welding Solution

The Dobot Welding Solution consists of a modular cobot station and the convenient Welding Process Package. It works with various third-party arc and laser welding machines. This mobile solution can be easily redeployed and no programming required.



Versatile features

1. It supports communication methods such as DeviceNet, Modbus, and analog quantity;
2. It supports welding modes such as MIG, MAG, and TIG;
3. It supports manual debugging features such as simulated welding, manual wire feeding, wire retraction, gas inspection, and spot welding;
4. It provides multiple arc swinging methods (as shown in the right picture);
5. It supports Arc Retry, Arc Re-ignition, and Wire Stick Removal.
6. It supports advanced features such as Touch Positioning, Laser Positioning, and Laser Tracking.

(Note: More features are continuously being developed and iterated)

